

VITEX STELLATA Moldenke, sp. nov.

Arbor parva; ramulis crassis medullosis obtuse tetragonis canaliculatis glauco-griseis dense tomentellis, pilis ad apicem glauco-stellatis; foliis 5-foliolatis; petiolis crassis dense tomentellis, pilis perspicue ad apicem glauco-stellatis; petiolulis crassis dense glauco-tomentellis; laminis subcoriaceis obovatis utrinque densissime pubescentibus rotundatis integris subrevolutis, ad basim longe attenuatis.

Small tree; branchlets stout, medullose, obtusely tetragonal, canaliculate, glaucous-gray, densely tomentellous with glaucous-stellate tips on the hairs; nodes not annulate; principal internodes 1.5-4 cm. long or longer; leaf-scars large but not especially prominent; terminal buds very densely flavescenscent-tomentellous; leaves decussate-opposite, 5-foliolate; petioles stout, 12-13 cm. long, densely tomentellous with the hairs conspicuously glaucous-stellate at their tips giving the petioles a decided bluish cast; petiolules stout, 2-14 mm. long, the central ones longest, all densely tomentellous with glaucous-stellate hairs, canaliculate above; leaflet-blades subcoriaceous, bright-green above, cinereous beneath, obovate, very densely pubescent on both surfaces, the pubescence cinereous beneath, the central ones 16-18 cm. long and 7.5-8 cm. wide, the lateral and lower ones smaller, rounded at the apex, entire and somewhat revolute along the margins, long-attenuate at the base; midrib stout, flat above, rounded-prominent beneath; secondaries slender, regular, 15-17 per side, ascending, slightly arcuate toward the margins, not anastomosing, flat above, sharply prominent beneath; veinlet reticulation abundant, mostly rather obscure above, prominent beneath; inflorescence not seen.

The type of this species was collected by Raymond Decary (no. 14549) at Massif de l'Ankara, Madagascar, on July 25, 1939, and is deposited in the herbarium of the Muséum National d'Histoire Naturelle at Paris. Lacking inflorescences for examination, it is possible that this species may not be correctly placed here, in spite of the collector's determination. Its pubescence suggests the Bignoniaceae.

THE KNOWN GEOGRAPHIC DISTRIBUTION OF THE MEMBERS OF THE
VERBENACEAE, AVICENNIACEAE, STILBACEAE, SYMPHOREMACEAE, AND
ERIOCAULACEAE. SUPPLEMENT 5

Harold N. Moldenke

Since the publication of the previous supplement to this list by me on December 18, 1950, over 5400 additional specimens

of these groups have been examined and annotated from the Joseph Ewan herbarium at New Orleans, the Meisner, Britton, and Torrey herbaria at the New York Botanical Garden, the Government Herbarium at Salisbury (Southern Rhodesia), and the herbaria of the Botanical Garden at Buitenzorg, the Muséum National d'Histoire Naturelle at Paris, the Royal Botanic Gardens at Kew, the Naturhistoriska Riksmuseet at Stockholm, the Bureau of Plant Industration Station at Beltsville (Maryland), the Naturhistorisches Museum at Vienna, the Instituto Botanico at São Paulo, the Jardin Botanique de l'Etat at Brussels, North Carolina State College at Raleigh, Tulane University at New Orleans, the Colegio de la Salle at Vedado (Havana, Cuba), the Museo Paranaense at Curitiba (Brazil), the Colegio Anchieta at Porto Alegre (Brazil), and the Institut Français d'Afrique Noire at Dakar (Senegal). These specimens have brought to light 72 new county or parish records, 229 new state, province, or department records, and 432 new country or island records not previously reported. Full citation of all substantiating specimens will be published in my forthcoming generic monographs or their supplements.

UNITED STATES OF AMERICA:

New York:

Verbena bracteata Lag. & Rodr. [Chemung County]

Verbena urticifolia L. [Rensselaer County]

Maryland:

Eriocaulon compressum Lam. -- delete Baltimore County

Eriocaulon decangulare L. [Baltimore County]

Verbena urticifolia L. [Montgomery County]

North Carolina:

Callicarpa americana L. [Anson County]

Callicarpa dichotoma (Lour.) K. Koch [Martin County]

Eriocaulon compressum Lam. [Wake County]

Eriocaulon septangulare With. [Bladen County]

Lachnocaulon anceps (Walt.) Morong [Cumberland & Pamlico Counties]

Lachnocaulon beyrichianum Sporleder [Bladen, New Hanover, & Pender Counties]

Lachnocaulon minus (Chapm.) Small [Cumberland County]

Phyla lanceolata (Michx.) Greene [Hyde County]

Phyla nodiflora (L.) Greene [Hyde & Pender Counties]

Stylodon carneus (Medic.) Moldenke [Bladen, Sampson, & Wayne Counties]

Syngonanthus flavidulus (Michx.) Ruhl. [Brunswick County]

Verbena bonariensis L. [Bladen & New Hanover Counties]

Verbena bracteata Lag. & Rodr. [Forsyth County]

Verbena brasiliensis Vell. [Northampton County]

Verbena scabra Vahl [Brunswick County]
Verbena simplex Lehm. [Granville County]
Verbena urticifolia L. [Granville & Wake Counties]
Verbena urticifolia var. leiocarpa Perry & Fernald [Wake County]

South Carolina:

Verbena tenuisecta Briq. [Dillon County]

Georgia:

Callicarpa americana L. [Rockdale & Wayne Counties]

Verbena rigida Spreng. [Lincoln County]

Florida:

Clerodendrum indicum (L.) Kuntze [Polk County]

Eriocaulon compressum Lam. [Highlands County]

Stachytarpheta urticaefolia (Salisb.) Sims [Highlands County]

Syngonanthus flavidulus (Michx.) Ruhl. [Bay & Palm Beach Counties]

Ohio:

Verbena hastata L. [Medina County]

Tennessee:

Callicarpa americana L. [Lauderdale County]

Missouri:

Verbena simplex Lehm. [Dent County]

Louisiana:

Avicennia nitida Jacq. [Plaquemines Parish]

Callicarpa americana L. [Grant & Washington Parishes]

Callicarpa americana var. lactea F. J. Muller [Lincoln Parish]

Clerodendrum bungei Steud. [Orleans Parish]

Lantana horrida H.B.K. [Orleans Parish]

Phyla nodiflora (L.) Greene [Plaquemines & Saint Tammany Parishes]

Verbena bipinnatifida Nutt. [Caddo Parish]

Verbena bonariensis L. [Plaquemines & Saint Martin Parishes]

Verbena bracteata Lag. & Rodr. [Orleans Parish]

Verbena brasiliensis Vell. [Saint Charles, Saint Martin, & Saint Tammany Parishes]

Verbena canadensis (L.) Britton [Union Parish]

Verbena hastata L. [Orleans Parish]

Verbena rigida Spreng. [Ascension Parish]

Verbena tenuisecta Briq. [Orleans Parish]

Verbena urticifolia L. [Lincoln & Orleans Parishes]

Verbena xutha Lehm. [Avoyelles & Saint Charles Parishes]

Vitex agnus-castus L. [Saint Bernard Parish]

Colorado:

Verbena bracteata Lag. & Rodr. [Riverside County]

Verbena stricta Vent. [Baca & Boulder Counties]

Texas:

- Callicarpa americana L. [Hill County]
Tetraclea coulteri A. Gray [Culberson County]
Verbena bonariensis L. [Orange County]
Verbena rigida Spreng. [Waller County]
Verbena tenuisecta Briq. [Hardin & Waller Counties]
Verbena xutha Lehm. [Anderson County]

California:

- Verbena lasiostachys Link [Contra Costa County]

MEXICO:

- Callicarpa pringlei Briq. [Hidalgo]
Phyla scaberrima (A. L. Juss.) Moldenke [Hidalgo]
Stachytarpheta acuminata P. DC. [Hidalgo]
Stachytarpheta hintoni Moldenke [Sonora]
Verbena pinetorum Moldenke [Sonora]
Verbena trifida H.B.K. [Hidalgo]

COSTA RICA:

- Aegiphila falcata Donn. Sm. [Limón]
Aegiphila panamensis Moldenke [Puntarenas]
Eriocaulon microcephalum H.B.K. [Cartago]
Lippia cardiostegia Benth. [Puntarenas]
Phyla nodiflora (L.) Greene [Puntarenas]
Stachytarpheta mutabilis var. violacea Moldenke [Alajuela]
Tonina fluviatilis Aubl. [Puntarenas]
Vitex cooperi Standl. [Puntarenas]

PEARL ISLANDS:

- Callicarpa acuminata H.B.K. [San José]
Citharexylum caudatum L. [San José]
Cornutia grandifolia var. normalis (Kuntze) Moldenke [San José]

CUBA:

- Stachytarpheta cayennensis (L. C. Rich.) Vahl [Las Villas]

JAMAICA:

- Verbena hastata L.

BEATA:

- Avicennia nitida Jacq.
Citharexylum fruticosum L.
Lantana reticulata Pers.
Stachytarpheta jamaicensis (L.) Vahl

ALTA VELA:

- Duranta repens L.
Stachytarpheta jamaicensis (L.) Vahl

ST. LUCIA:

- Citharexylum fruticosum L.
Lantana arubensis Moldenke
Lantana camara L.

Lantana radula Sw.

Phyla strigulosa var. parvifolia (Moldenke) Moldenke

Stachytarpheta australis Moldenke

CANNUOAN ISLAND:

Lantana reticulata Pers.

BEQUIA:

Lantana reticulata Pers.

WHITE ISLAND:

Lantana involucrata L.

CARRIACOU:

Lantana involucrata L.

PETIT MARTINIQUE:

Lantana reticulata Pers.

COLOMBIA:

Aegiphila filipes Mart. & Schau. [Amazonas]

Lantana maxima Hayek [Tolima]

Lantana trifolia f. hirsuta Moldenke [Huila]

Lippia alba (Mill.) N. E. Br. [Amazonas]

Petrea atrocoerulea Moldenke [Amazonas]

Phyla betulaefolia (H.B.K.) Greene [Amazonas]

Phyla nodiflora (L.) Greene [Nariffo]

Phyla scaberrima (A. L. Juss.) Moldenke [Nariffo]

Stachytarpheta cayennensis (L. C. Rich.) Vahl [Nariffo]

Tonina fluviatilis Aubl. [Nariffo]

VENEZUELA:

Leiostrix flavescens (Bong.) Ruhl. [Trujillo]

Lippia alba (Mill.) N. E. Br. [Aragua]

Paepalanthus tortilis (Bong.) Mart. [Trujillo]

Paepalanthus williamsii Moldenke -- delete the asterisk

Phyla stoechadifolia (L.) Small [Aragua]

Syngonanthus eriophyllus var. glanduliferus Ruhl. -- to be deleted

Syngonanthus gracilis var. koernickeanus Ruhl. [Bolívar]

SURINAM:

Syngonanthus eriophyllus (Mart.) Ruhl. -- to be deleted

Syngonanthus eriophyllus var. glanduliferus Ruhl. -- to be deleted

Syngonanthus gracilis var. koernickeanus Ruhl.

ECUADOR:

Aloysia scorodonioides var. detonsa (Briq.) Moldenke [Tunguragua]

GALAPAGOS ISLANDS:

Avicennia nitida Jacq. [Santa Cruz]

PERU:

Aloysia scorodonioides (H.B.K.) Cham. [Amazonas, Apurimac, & Puno]

- Aloysia virgata (Ruiz & Pav.) A. L. Juss. [Cuzco]
Stachytarpheta cayennensis (L. C. Rich.) Vahl [San Martín]
Verbena alpigena Walp. -- to be deleted
Verbena laciniata (L.) Briq. [Junín]
Verbena multifida Ruiz & Pav. -- to be deleted

BRAZIL:

- Aloysia pulchra (Briq.) Moldenke -- delete Rio de Janeiro
Aloysia virgata (Ruiz & Pav.) A. L. Juss. [Goyaz]
Eriocaulon sellowianum var. longifolium Moldenke [Goyaz]*
Lantana aristata (Schau.) Briq. [São Paulo]
Lantana camara var. nivea (Vent.) L. H. Bailey [Federal District]
Lantana punctulata Moldenke [Pará]*
Leiothrix aquatica Alv. Silv. -- to be deleted
Leiothrix hirsuta var. blanchetiana (Körn.) Ruhl. [Rio de Janeiro]
Lippia alba (Mill.) N. E. Br. [Goyaz]
Paepalanthus batocephalus Ruhl. [Rio de Janeiro]
Paepalanthus claussenianus Körn. [Goyaz]
Paepalanthus diplobetor Ruhl. is the correct orthography
Paepalanthus elongatus var. helichrysoides (Kunth) Ruhl. [São Paulo]
Paepalanthus hilairei var. maximiliani Ruhl. [Goyaz]
Paepalanthus ramosus var. affinis (Bong.) Ruhl. [Rio de Janeiro]
Paepalanthus speciosus (Bong.) Körn. [Paraná]
Paepalanthus speciosus var. glaber Ruhl. [Maranhão]
Paepalanthus tortilis (Bong.) Mart. [Federal District]
Paepalanthus williamsii Moldenke [Amazonas]
Phyla nodiflora (L.) Greene [Rio Grande do Sul]
Syngonanthus gracilis var. olivaceus Ruhl. [Goyaz]
Syngonanthus gracilis var. setaceus Ruhl. [Minas Geraes]
Syngonanthus nitens (Bong.) Ruhl. [São Paulo]
Syngonanthus nitens var. erectus Ruhl. [Mattogrosso]
Syngonanthus niveus var. rosulatus (Körn.) Moldenke [Minas Geraes & Rio de Janeiro]*
Syngonanthus tenuis (H.B.K.) Ruhl. [Amazonas]
Syngonanthus vernonioides var. minor Kunth [Minas Geraes]*
Syngonanthus weddellii Moldenke [Goyaz]*
Tonina fluviatilis Aubl. [Mattogrosso]
Verbena alata f. alba Moldenke [Minas Geraes]*
Verbena calliantha Briq. [Rio Grande do Sul]
Verbena ephedroides Cham. [Santa Catharina]
Verbena hirta var. gracilis Dusén [Rio de Janeiro]
Verbena inamoena Briq. -- to be deleted

- Verbena jordanensis Moldenke [Santa Catharina]
Verbena lobata var. glabrata Moldenke [Rio de Janeiro]
Verbena malmii Moldenke [Paraná]
Verbena nervosa Scheele -- to be deleted
Verbena paulensis Moldenke [São Paulo]*
Verbena ramboi Moldenke [Rio Grande do Sul]*
Verbena rigida var. reineckii (Briq.) Moldenke [Rio Grande do Sul]
Verbena sagittalis Cham. [Rio Grande do Sul]
Verbena stenophylla Scheele -- to be deleted
Verbena tenera Spreng. [Santa Catharina]

BOLIVIA:

- Duranta recurvistachys Rusby [La Paz]
Timotocia mansoi (Schau.) Moldenke [El Beni]
Verbena gynobasis Wedd.

PARAGUAY:

- Verbena inamoena Briq. -- to be deleted
Verbena rigida var. reineckii (Briq.) Moldenke -- delete the asterisk

URUGUAY:

- Eriocaulon leptophyllum Kunth

CHILE:

- Lippia geisseana (R. A. Phil.) Solered. [Coquimbo]
Verbena multifida Ruiz & Pav. -- to be deleted

ARGENTINA:

- Citharexylum mendocinum R. A. Phil. -- to be deleted
Junellia juniperina (Lag.) Moldenke [Santiago del Estero]
Verbena hookeriana (Covas & Schnack) Moldenke [Santiago del Estero]
Verbena rigida Spreng. [Córdoba]
Verbena santiaguensis (Covas & Schnack) Moldenke [Corrientes]

PORTUGAL:

- Vitex agnus-castus L.

ITALY:

- Vitex negundo var. intermedia (P'ei) Moldenke

TRIESTE:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

FIUME:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

UNION OF SOCIALIST SOVIET REPUBLICS:

- Vitex agnus-castus var. pseudo-negundo (Hausskn.) Bornm.
 [Turkmanskaya]

- Vitex negundo var. cannabifolia (Sieb. & Zucc.) Hand.-Mazz.
 [Maritime Territory]

ALGERIA:

- Vitex agnus-castus L.
Vitex agnus-castus f. latifolia (Mill.) Rehd.

FRENCH WEST AFRICA:

Clerodendrum capitatum var. conglobatum (J. G. Baker) Thomas
[French Soudan]

ANGLO-EGYPTIAN SUDAN:

Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum triplinerve Rolfe

ABYSSINIA:

Premna somaliensis J. G. Baker

SENEGAL:

Eriocaulon inundatum Moldenke*
Vitex chrysocarpa Planch.

SIERRA LEONE:

Clerodendrum capitatum var. cephalanthum (Oliv.) J. G. Baker
Vitex thrysiflora J. G. Baker

GOLD COAST:

Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum triplinerve Rolfe

NORTHERN NIGERIA:

Lippia africana var. sessilis Moldenke -- to be deleted
Lippia nigeriensis var. brevipedunculata Moldenke -- delete
the asterisk
Lippia wilmsii var. sessilis (Moldenke) Moldenke*

SOUTHERN NIGERIA:

Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum triplinerve Rolfe

CAMEROONS:

Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum formicarum var. sulcatum Thomas -- to be deleted
Clerodendrum triplinerve var. sulcatum (Thomas) Moldenke

SPANISH GUINEA:

Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum triplinerve Rolfe

ST. THOMÉ:

Clerodendrum thomsonae Balf. f.

FRENCH EQUATORIAL AFRICA:

Clerodendrum schweinfurthii Gürke [Ubangi-chari]
Clerodendrum umbellatum var. asperifolium (Thomas) Moldenke

BELGIAN CONGO:

Clerodendrum buchholzii Gürke
Clerodendrum büttneri Gürke
Clerodendrum capitatum (Willd.) Schum. & Thonn.
Clerodendrum capitatum var. conglobatum (J. G. Baker) Thomas
Clerodendrum capitatum var. vanderysti Moldenke*
Clerodendrum cordifolium (Hochst.) A. Rich.
Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum formicarum var. sulcatum Thomas -- to be deleted
Clerodendrum johnstoni var. rubrum Thomas

Clerodendrum myricoides var. savanorum (De Wild.) Thomas --
to be deleted

Clerodendrum pusillum Gürke

Clerodendrum rotundifolium Oliv.

Clerodendrum silvaeanum Henriq.

Clerodendrum silvestre Thomas

Clerodendrum triplinerve Rolfe

Clerodendrum triplinerve var. sulcatum (Thomas) Moldenke

Clerodendrum ugandense Prain

Clerodendrum umbellatum var. asperifolium (Thomas) Moldenke

Lantana antidotalis Schum. & Thonn.

Lantana rhodesiensis Moldenke

Lantana tiliaefolia Cham.

Lantana viburnoides var. velutina Moldenke

Lippia callensi var. villosa Moldenke*

Lippia grandifolia var. angustispicata Moldenke*

Lippia grandifolia var. longipedunculata Moldenke

Lippia kituiensis Vatke

Lippia nigeriensis var. brevipedunculata Moldenke

Lippia plicata J. G. Baker

Lippia rehmanni H. H. W. Pearson

Lippia schliebeni Moldenke

Lippia wilmsii var. villosa (Moldenke) Moldenke

Premna angolensis Gürke

Premna bequaerti Moldenke*

Premna matadiensis Moldenke*

Verbena bonariensis L.

Vitex chrysocarpa Planch.

Vitex rivularis Gürke

UGANDA PROTECTORATE:

Clerodendrum buchholzii Gürke

Clerodendrum capitatum (Willd.) Schum. & Thonn.

Clerodendrum johnstoni Oliv.

Clerodendrum melanocrater Gürke

Lippia africana var. villosa Moldenke -- to be deleted

Lippia grandifolia var. longipedunculata Moldenke -- delete
the asterisk

Lippia wilmsii var. villosa (Moldenke) Moldenke

TANGANYIKA TERRITORY:

Clerodendrum formicarum var. sulcatum Thomas -- to be deleted

Clerodendrum triplinerve var. sulcatum (Thomas) Moldenke

Eriocaulon hanningtonii N. E. Br. -- delete the asterisk

Kalaharia spinescens var. hirsuta Moldenke

Lantana rhodesiensis Moldenke

Lippia africana Moldenke -- to be deleted

- Lippia africana var. villosa Moldenke -- to be deleted
Lippia wilmsii H. H. W. Pearson
Lippia wilmsii var. villosa (Moldenke) Moldenke
Premna longipes J. G. Baker
Vitex buchanani J. G. Baker
Vitex buchanani var. quadrangula (Gürke) Pieper -- delete the asterisk
Vitex grandifolia var. bipindensis (Gürke) Pieper
Vitex lokundjensis Pieper
Vitex mossambicensis Gürke

ZANZIBAR PROTECTORATE:

- Stachytarpheta urticaefolia (Salisb.) Sims

MOMBASA ISLAND:

- Premna hildebrandtii Gürke
Premna macrodonta J. G. Baker

KENYA:

- Clerodendrum capitatum var. cephalanthum (Oliv.) J. G. Baker
Clerodendrum johnstoni var. rubrum Thomas
Clerodendrum rotundifolium Oliv.
Lippia africana var. villosa Moldenke -- to be deleted
Lippia kituiensis Vatke -- delete the asterisk
Lippia wilmsii var. villosa (Moldenke) Moldenke
Premna hildebrandtii Gürke
Premna macrodonta J. G. Baker -- delete the asterisk

ANGOLA:

- Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum myricoides var. savanorum (DeWild.) Thomas -- to be deleted
Clerodendrum triplinerve Rolfe [Loanda]
Eriocaulon gilgianum Ruhl. -- delete the asterisk
Vitex mombassae Vatke [Loanda]

NORTHERN RHODESIA:

- Clerodendrum formicarum Gürke -- to be deleted
Clerodendrum toxicarium J. G. Baker
Clerodendrum triplinerve Rolfe
Kalaharia spinescens (Oliv.) Gürke
Lantana rhodesiensis Moldenke -- delete the asterisk
Lippia africana Moldenke -- to be deleted
Lippia africana var. villosa Moldenke -- to be deleted
Lippia wilmsii H. H. W. Pearson
Lippia wilmsii var. villosa (Moldenke) Moldenke
Vitex welwitschii Gürke

SOUTHERN RHODESIA:

- Chascanum pinnatifidum var. racemosum Schinz & Moldenke
Clerodendrum amplifolium S. Moore
Clerodendrum buchneri Gürke

Clerodendrum discolor var. kilimandscharense Thomas

Clerodendrum formicarum Gürke -- to be deleted

Clerodendrum holtzei F. Muell.

Clerodendrum lanceolatum Gürke

Clerodendrum myricoides var. camporum Gürke

Clerodendrum rehmanni Gürke

Clerodendrum triplinerve Rolfe

Clerodendrum ugandense Prain

Eriocaulon schweickerdti Moldenke*

Kalaharia spinescens var. hirsuta Moldenke

Lippia africana Moldenke -- to be deleted

Lippia wilmsii H. H. W. Pearson

Lippia wilmsii var. scaberrima (Moldenke) Moldenke

Lippia wilmsii var. villosa (Moldenke) Moldenke

Lippia woodii Moldenke

Phyla nodiflora var. rosea (D. Don) Moldenke

Verbena wrightii A. Gray

BRITISH NYASALAND PROTECTORATE:

Lippia africana var. scaberrima Moldenke -- to be deleted

Lippia wilmsii var. scaberrima (Moldenke) Moldenke

Premna longipes J. G. Baker -- delete the asterisk

Vitex buchananii var. quadrangula (Gürke) Pieper

PORTUGUESE EAST AFRICA:

Clerodendrum capitatum (Willd.) Schum. & Thonn.

Eriocaulon elegantulum Engl. [Quilimane]

Eriocaulon hanningtonii N. E. Br. [Quilimane]

Lantana camara var. aculeata (L.) Moldenke

Lippia wilmsii H. H. W. Pearson

Vitex mombassae Vatke [Mozambique]

Vitex welwitschii Gürke [Lourenço Marques]

SOUTHWEST AFRICA:

Lippia africana Moldenke -- to be deleted

BECHUANALAND PROTECTORATE:

Vitex payos var. glabrescens (Pieper) Moldenke

UNION OF SOUTH AFRICA:

Clerodendrum myricoides var. camporum Gürke [Natal]

Lippia africana Moldenke -- to be deleted

Lippia africana var. scaberrima Moldenke -- to be deleted

Lippia rehmanni H. H. W. Pearson -- delete the asterisk

Lippia wilmsii H. H. W. Pearson [Cape of Good Hope]

Lippia wilmsii var. scaberrima (Moldenke) Moldenke [Cape of Good Hope]

Stilbe charisepala Suesseng. [Cape of Good Hope]*

Verbena rigida Spreng. [Transvaal]

Vitex amboniensis Gürke [Transvaal]

COMORO ISLANDS:

Vitex trifolia var. bicolor (Willd.) Moldenke [Anjouan & Mayotte]

NOSY-BÉ:

Vitex trifolia var. bicolor (Willd.) Moldenke

MADAGASCAR:

Clerodendrum incisum var. parvifolium Moldenke*

Clerodendrum nudiflorum Moldenke*

Clerodendrum nudiflorum var. puberulentum Moldenke*

Clerodendrum sylvestre var. pubescens Moldenke*

Eriocaulon apiculatum H. Lecomte & Moldenke*

Eriocaulon flumineum Moldenke*

Eriocaulon gilgianum Ruhl.

Eriocaulon heterochiton var. acuminatum Moldenke*

Eriocaulon madagascariense Moldenke*

Eriocaulon mokalense Moldenke*

Eriocaulon mutatum N. E. Br.

Eriocaulon parvicapitulatum Moldenke*

Eriocaulon subulatum N. E. Br.

Eriocaulon trilobatum var. glabrescens Moldenke*

Paepalanthus lamarckii Kunth

Premna corymbosa var. madagascariensis Moldenke*

Priva humberti Moldenke*

Syngonanthus humberti Moldenke*

Vitex aurea Moldenke*

Vitex befotakensis Moldenke*

Vitex beraviensis var. acuminata Moldenke*

Vitex beraviensis f. pilosa Moldenke*

Vitex beraviensis f. villosa Moldenke*

Vitex bojeri var. suborbicularis Moldenke*

Vitex cauliflora Moldenke*

Vitex cauliflora var. longifolia Moldenke*

Vitex cauliflora var. villosissima Moldenke*

Vitex chrysomallum Steud. is the correct orthography

Vitex chrysomallum var. longicalyx Moldenke*

Vitex chrysomallum var. tomentella Moldenke*

Vitex coursi Moldenke*

Vitex doniana Sweet

Vitex elakelakensis Moldenke*

Vitex grandidiana var. angustifolia Moldenke*

Vitex humberti Moldenke*

Vitex humberti var. angustata Moldenke*

Vitex leandrii Moldenke*

Vitex lobata Moldenke*

Vitex madagascariensis Moldenke*

Vitex microphylla Moldenke*

Vitex oscitans Moldenke*

- Vitex pervillei var. pubescens Moldenke*
Vitex pinnata L.
Vitex pulchra Moldenke*
Vitex resinifera Moldenke*
Vitex rubra Moldenke*
Vitex stellata Moldenke*
Vitex trifolia var. bicolor (Willd.) Moldenke
- MASCARENE ISLANDS:
- Clerodendrum calamitosum L. [Mauritius]
Eriocaulon sexangulare L. [Mauritius]
Eriocaulon striatum Lam. [Mauritius]
- REUNION:
- Eriocaulon quinquangulare L.
- BALUCHISTAN:
- Vitex agnus-castus var. pseudo-negundo (Hausskn.) Bornm.
- NEPAL:
- Eriocaulon cinereum R. Br.
Premna tomentosa Willd.
- INDIA:
- Caryopteris paniculata C. B. Clarke [Sikkim]
Clerodendrum fragrans var. pleniflorum Schau. [Bastar]
Clerodendrum nutans Wall. [Khasi States]
Clerodendrum serratum (L.) Moon [Khasi States]
Clerodendrum viscosum Vent. [Khasi States]
Congea tomentosa var. azurea (Wall.) C. B. Clarke [West Bengal]
Eriocaulon cinereum R. Br. [Bihar & United Provinces]
Eriocaulon gracile Mart. [United Provinces]
Eriocaulon sexangulare L. [United Provinces]
Eriocaulon sollyanum Royle [Mysore]
Eriocaulon truncatum Hamilt. [Bihar & United Provinces]
Gmelina arborea var. canescens Haines [United Provinces]
Gmelina arborea var. glaucescens C. B. Clarke [Sikkim & United Provinces]
Gmelina asiatica var. villosa Bakh. -- to be deleted
Holmskioldia sanguinea Retz. [Khasi States]
Lippia alba (Mill.) N. E. Br. [Khasi States]
Petrea volubilis L. [Madras]
Sphenodesme griffithiana Wight [West Bengal]
Sphenodesme involucrata (Presl) B. L. Robinson [West Bengal]
Vitex altissima L. f. [United Provinces]
Vitex canescens Kurz [Manipur]
Vitex leucoxydon L. f. [Bastar & Madras]
Vitex negundo L. [Kashmir]
Vitex negundo var. cannabifolia (Sieb. & Zucc.) Hand.-Mazz. [Madras & Mysore]

- Vitex negundo var. intermedia (P'ei) Moldenke [Bangalore & East Punjab]
- Vitex pinnata L. [Khasi States]
- Vitex quinata (Lour.) F. N. Will. [Assam]
- Vitex trifolia var. bicolor (Willd.) Moldenke [Bombay]
- FRENCH INDIA:
Phyla nodiflora (L.) Greene
- BURMA:
Eriocaulon cinereum R. Br. [Tenasserim]
Eriocaulon gracile Mart. [Upper Burma]
Gmelina arborea var. canescens Haines [Upper Burma]
Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm.
Vitex coriacea C. B. Clarke -- to be deleted
Vitex peduncularis Wall. [Upper Burma]
- ANDAMAN ISLANDS:
Sphenodesme involucrata (Presl) B. L. Robinson [South Andaman]
Vitex trifolia var. heterophylla (Mak.) Moldenke
- CEYLON:
Eriocaulon brownianum var. latifolium Moldenke*
- CHINA:
Callicarpa tsiangii Moldenke [Hupeh]
Clerodendrum lindleyi Decaisne [Yunnan]
Clerodendrum trichotomum var. ferrugineum Nakai [Chekiang]
Vitex negundo var. cannabifolia (Sieb. & Zucc.) Hand.-Mazz. [Shantung]
Vitex trifolia var. simplicifolia Cham. [Hopeh]
- FORMOSA:
Clerodendrum trichotomum var. ferrugineum Nakai
- JAPAN:
Clerodendrum trichotomum Thunb. [Kiushiu]
Clerodendrum trichotomum var. ferrugineum Nakai [Hokkaido & Kiushiu]
Eriocaulon kiusianum Maxim. [Kiushiu]*
Vitex negundo var. cannabifolia (Sieb. & Zucc.) Hand.-Mazz. [Kiushiu]
- MACAO:
Caryopteris incana (Thunb.) Miq.
- LANTAU ISLAND:
Vitex negundo L.
- LAPPAS ISLAND:
Vitex trifolia var. simplicifolia Cham.
- FRENCH INDO-CHINA:
Clerodendrum calamitosum L. [Cambodia]
Congea peteloti Moldenke [Laos & Tonkin]*
Teijsmanniodendron hollrungii (Warb.) Kosterm. [Annam & Cochinchina]

Vitex hollrungii Warb. -- to be deleted

Vitex peduncularis Wall. [Annam]

THAILAND:

Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm.

Vitex coriacea C. B. Clarke -- to be deleted

Vitex negundo var. intermedia (P'ei) Moldenke

FEDERATED MALAY STATES:

Peronema canescens Jack [Johore, Kelantan, & Perak]

Sphenodesme barbata (Wall.) Schau. [Johore]

Sphenodesme triflora Wight [Johore, Perak, & Trengganu]

Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm. [Kedah, Perak, & Selangor]

Teijsmanniodendron hollrungii (Warb.) Kosterm. [Johore, Pahang, & Perak]

Teijsmanniodendron holophyllum (J. G. Baker) Kosterm. [Johore]

Vitex coriacea C. B. Clarke -- to be deleted

STRAITS SETTLEMENTS:

Clerodendrum deflexum Wall. [Malacca]

Sphenodesme barbata (Wall.) Schau. [Sembilan]

Sphenodesme pentandra Jack [Malacca]

Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm. [Malacca, Penang, & Singapore]

Teijsmanniodendron hollrungii (Warb.) Kosterm. [Malacca]

Vitex coriacea C. B. Clarke -- to be deleted

Vitex hollrungii Warb. -- to be deleted

Vitex negundo L. [Malacca]

Vitex quinata (Lour.) F. N. Will. [Malacca]

Vitex vestita Wall. [Singapore]

LIUKIU ISLANDS:

Callicarpa japonica var. luxurians Rehd. [Okinawa]

Clerodendrum inerme (L.) Gaertn. [Oshima]

Clerodendrum trichotomum var. ferrugineum Nakai

Eriocaulon sexangulare L. [Okinawa]

PHILIPPINE ISLANDS:

Gmelina palawensis var. dinagatensis Moldenke [Dinagat]*

Premna benguetensis C. B. Robinson is the correct orthography

Vitex parviflora A. L. Juss. [Basilan & Ticao]

Vitex trifolia L. [Polillo]

Vitex trifolia var. heterophylla (Mak.) Moldenke [Luzon]

Viticipremna philippinensis (Turcz.) H. J. Lam -- delete the asterisk

RIOUW ARCHIPELAGO:

Petrea volubilis L. [Bintan]

Sphenodesme barbata (Wall.) Schau. [Bakong & Bedjai]

LINGGA ARCHIPELAGO:

Petraeovitex trifoliata Merr. [Singkep]

SUMATRA:

- Duranta repens L.
Holmskioldia sanguinea Retz.
Petraeovitex sumatrana H. J. Lam -- delete the asterisk
Petrea volubilis L.
Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm.
Teijsmanniodendron hollrungii (Warb.) Kosterm.
Teijsmanniodendron sarawakanum (H. H. W. Pearson) Kosterm.
Teijsmanniodendron subspicatum (H. Hallier) Kosterm.
Verbena tenuisecta Briq.
Vitex coriacea C. B. Clarke -- to be deleted
Vitex hollrungii Warb. -- to be deleted
Vitex subspicata H. Hallier -- to be deleted
Vitex trifolia var. heterophylla (Mak.) Moldenke

JAVA:

- Congea velutina Wight
Verbena officinalis L.
Verbena tenuisecta Briq.
Vitex trifolia var. heterophylla (Mak.) Moldenke
Viticipremna philippinensis (Turcz.) H. J. Lam

ANAMBAS ISLANDS:

- Teijsmanniodendron holophyllum (J. G. Baker) Kosterm.

BRITISH NORTH BORNEO:

- Eriocaulon beccarii Suesseng. & Heine
Petraeovitex elmeri Merr. -- to be deleted
Petraeovitex sumatrana H. J. Lam
Sphenodesme triflora Wight
Teijsmanniodendron hollrungii (Warb.) Kosterm.
Vitex hollrungii Warb. -- to be deleted

SARAWAK:

- Sphenodesme triflora Wight
Teijsmanniodendron hollrungii (Warb.) Kosterm.
Teijsmanniodendron sarawakanum (H. H. W. Pearson) Kosterm.
Teijsmanniodendron smilacifolium (H. H. W. Pearson) Kosterm.
Teijsmanniodendron subspicatum (H. Hallier) Kosterm.
Vitex hollrungii Warb. -- to be deleted
Vitex sarawakana H. H. W. Pearson -- to be deleted
Vitex smilacifolia H. H. W. Pearson -- to be deleted
Vitex subspicata H. Hallier -- to be deleted

BORNEO:

- Callicarpa kinabaluensis Bakh.*
Congea velutina Wight
Eriocaulon beccarii Suesseng. & Heine
Petraeovitex elmeri Merr. -- to be deleted
Petraeovitex sumatrana H. J. Lam

Petraeovitex ternata H. Hallier -- to be deleted
Petraeovitex ternata var. glabrior H. J. Lam -- to be deleted
Petraeovitex trifoliata Merr.

Teijsmanniodendron hollrungii (Warb.) Kosterm.
Teijsmanniodendron holophyllum (J. G. Baker) Kosterm.
Teijsmanniodendron pteropodum var. auriculatum Kosterm.*
Teijsmanniodendron sarawakanum (H. H. W. Pearson) Kosterm.
Teijsmanniodendron smilacifolium (H. H. W. Pearson) Kosterm.
Teijsmanniodendron subspicatum (H. Hallier) Kosterm.
Vitex hollrungii Warb. -- to be deleted
Vitex smilacifolia H. H. W. Pearson -- to be deleted
Vitex subspicata H. Hallier -- to be deleted

CELEBES:

Gmelina palawensis var. celebica Moldenke*
Premna tomentosa Willd.
Teijsmanniodendron hollrungii (Warb.) Kosterm.
Vitex hollrungii Warb. -- to be deleted

KANGEAN ARCHIPELAGO:

Duranta repens L. [Kangean]

LESSER SUNDA ISLANDS:

Gmelina asiatica var. villosa Bakh. -- to be deleted
Pygmaepremna herbacea (Roxb.) Moldenke [Soemba]
Teijsmanniodendron coriaceum (C. B. Clarke) Kosterm. [Banka]
Teijsmanniodendron hollrungii (Warb.) Kosterm. [Banka]
Vitex hollrungii Warb. -- to be deleted

MOLUCCA ISLANDS:

Callicarpa caudata Maxim. [Amboina]
Clerodendrum obovatum (Roxb.) Walp.*
Gmelina moluccana (Blume) Backer [Buru, Halmahera, Ternate, & Tobelo]
Petraeovitex multiflora (J. E. Sm.) Merr. [Ceram]
Teijsmanniodendron hollrungii (Warb.) Kosterm. [Amboina, Buru, Ceram, & Sula]
Vitex hollrungii Warb. -- to be deleted.
Vitex quinata (Lour.) F. N. Will. [Amboina]

NEW GUINEA:

Callicarpa caudata Maxim. [Northeastern New Guinea & Papua]
Clerodendrum cunninghamii Benth. [Northeastern New Guinea]
Premna regularis H. J. Lam [Northeastern New Guinea]
Pygmaepremna sessilifolia (H. J. Lam) Moldenke [Northeastern New Guinea]
Teijsmanniodendron hollrungii (Warb.) Kosterm. [Dutch New Guinea]
Vitex hollrungii Warb. -- to be deleted

BISMARCK ARCHIPELAGO:

Duranta repens L. [New Ireland]

SOLOMON ISLANDS:

Petraeovitex multiflora var. salomonensis Bakh. -- to be deleted

Petraeovitex sumatrana var. salomonensis (Bakh.) Moldenke
[Bougainville]*

AUSTRALIA:

Premna acuminata R. Br. [Western Australia]

Vitex guajaci Ettingsh. -- to be deleted

THURSDAY ISLAND:

Glossocarya hemiderma (F. Muell.) Benth.

NEW ZEALAND:

Teuclidium parvifolium var. luxurians Cheesem.*

SOCIETY ISLANDS:

Vitex trifolia var. simplicifolia Cham. [Tahiti]

CULTIVATED:

Aloysia casadensis Hassler & Moldenke [New York]

Aloysia chamaedryfolia Cham. [Belgium]

Aloysia virgata var. platyphylla (Briq.) Moldenke [Argentina
& Paraguay]

Bouchea pseudochascanum (Walp.) Grenz. [Java]

Caryopteris incana f. candida (Schneid.) Hara [New York]

Caryopteris odorata (Hamilton) B. L. Robinson [Southern Rhodesia]

Caryopteris paniculata C. B. Clarke [India]

Citharexylum berlandieri B. L. Robinson [New York]

Citharexylum kerberi Greenm. [Java]

Citharexylum pentandrum Vent. [Java]

Citharexylum schottii Greenm. [Java]

Citharexylum tristachyum Turcz. [Java]

Clerodendrum aculeatum (L.) Schlecht. [Belgian Congo]

Clerodendrum discolor var. oppositifolium Thomas [New York]

Clerodendrum indicum (L.) Kuntze [Louisiana]

Clerodendrum infortunatum L. [India]

Clerodendrum laevifolium Blume [Belgium]

Clerodendrum myricoides var. camporum Gürke [Belgium]

Clerodendrum speciosissimum Van Geert [Belgian Congo]

Clerodendrum splendens G. Don [China & Cuba]

Clerodendrum ugandense Prain [New York]

Clerodendrum umbellatum var. asperifolium (Thomas) Moldenke
[Belgian Congo]

Clerodendrum umbellatum var. speciosum (Dombrain) Moldenke
[Brazil & Cuba]

Congea tomentosa Roxb. [Puerto Rico]

Congea tomentosa var. azurea (Wall.) C. B. Clarke [Cuba, Hispaniola, India, Java, & Trinidad]

Congea velutina Wight [Canal Zone, Sarawak, & Straits Settle-

ments]

- Congea vestita Griffith [Java & New York]
Duranta repens L. [Java]
Duranta repens var. alba (Masters) L. H. Bailey [Java]
Duranta stenostachya Tod. [Java]
Gmelina arborea Roxb. [Java]
Gmelina arborea var. glaucescens C. B. Clarke [Java]
Gmelina elliptica J. E. Sm. [Java]
Gmelina philippensis Cham. [Java]
Holmskioldia sanguinea Retz. [Belgian Congo & Java]
Hymenopyramis brachiata Wall. [Java]
Junellia illapelina (R. A. Phil.) Moldenke [England]
Junellia thymifolia (Lag.) Moldenke [England]
Junellia tridens (Lag.) Moldenke [England]
Lantana achyranthifolia Desf. [Belgium]
Lantana annua L. [Belgium]
Lantana camara var. mista (L.) L. H. Bailey [New York]
Lantana camara var. mutabilis (Hook.) L. H. Bailey [Belgium]
Lantana camara var. sanguinea (Medic.) L. H. Bailey [New York]
Lantana glandulosissima Hayek [Belgium]
Lantana horrida H.B.K. [Louisiana]
Lantana involucrata L. [Austria & Belgium]
Lantana mearnsii var. congolensis Moldenke [Belgian Congo]
Lantana ovatifolia Britton [New York]
Lantana stricta Sw. [Belgium]
Lantana tiliaefolia Cham. [Belgian Congo]
Lantana urticaefolia Mill. [New York]
Lippia multiflora Moldenke [Belgian Congo]
Monochilus gloxinifolius Fisch. & Mey. [Belgium]
Peronema canescens Jack [Sumatra]
Petrea volubilis L. [Belgian Congo & Belgium]
Phyla cuneifolia (Torr.) Greene [New York]
Phyla nodiflora (L.) Greene [Belgium]
Phyla nodiflora var. canescens (H.B.K.) Moldenke [France]
Phyla nodiflora var. rosea (D. Don) Moldenke [Germany].
Sphenodesme involucrata (Presl) B. L. Robinson [India & Java]
Sphenodesme pentandra Jack [India]
Stachytarpheta jamaicensis (L.) Vahl [Austria & New York]
Syngonanthus elegans (Körn.) Ruhl. [Brazil & New York]
Teijsmanniodendron hollrungii (Warb.) Kosterm. [India]
Timotocia integrifolia var. fischeri (Mart.) Moldenke [Belgium]
Verbena alata Cham. [England, France, & Germany]
xVerbena baileyana Moldenke [Austria]

- Verbena bipinnatifida var. latilobata Perry [Belgium]
Verbena bonariensis L. [Belgian Congo, Java, & Romania]
Verbena bonariensis var. conglomerata Briq. [Belgium & New York]
Verbena brasiliensis Vell. [Belgium & Uruguay]
Verbena canadensis (L.) Britton [Java]
Verbena chamaedryoides Hoffm. — to be deleted
Verbena corymbosa Ruiz & Pav. [England]
Verbena curtisii Moldenke [Belgium]
Verbena dissecta Willd. [Massachusetts]
Verbena halei Small [Massachusetts]
Verbena halei x lasiostachys Dermen [Massachusetts]*
Verbena halei x neomexicana Dermen [Massachusetts]*
Verbena halei x officinalis Dermen [Massachusetts]*
Verbena hastata L. [New York]
Verbena hastata x spuria Haartman [Sweden]*
Verbena hispida Ruiz & Pav. [Belgium]
Verbena hispida x officinalis Dermen [Massachusetts]*
Verbena hispida x simplex Dermen [Massachusetts]*
Verbena hispida x urticifolia Dermen [Massachusetts]*
xVerbena hybrida Voss [Austria, Belgian Congo, India, Java, & Netherlands]
Verbena incisa Hook. [Austria & Belgium]
Verbena laciniata (L.) Briq. [Massachusetts]
Verbena laciniata x dissecta Dermen [Massachusetts]*
Verbena laciniata x megapotamica Dermen [Massachusetts]*
Verbena laciniata x phlogiflora Dermen [Massachusetts]*
Verbena laciniata var. contracta (Lindl.) Moldenke [England]*
Verbena laciniata var. sabini (Sweet) Moldenke [England]*
Verbena lasiostachys Link [Belgium & Massachusetts]
Verbena litoralis H.B.K. [Java & New York]
Verbena megapotamica Spreng. [Massachusetts]
xVerbena moechina Moldenke [Belgium]
Verbena neomexicana (A. Gray) Small [Massachusetts]
Verbena officinalis L. [Java, Massachusetts, & Sweden]
Verbena officinalis x Veronica maritima Haartman [Sweden]*
Verbena peruviana (L.) Britton [Massachusetts]
Verbena peruviana x phlogiflora Dermen [Massachusetts]*
Verbena peruviana var. glabriuscula Kuntze [Belgium]
Verbena peruviana f. rosea Moldenke [England]
Verbena phlogiflora Cham. [Massachusetts]
Verbena platensis Spreng. [Belgium]
Verbena radicans Gill. & Hook. [England]
Verbena recta H.B.K. [Belgium]
Verbena rigida Spreng. [India & Java]

- Verbena santiaguensis (Covas & Schnack) Moldenke [Massachusetts]
- Verbena santiaguensis x megapotamica Dermen [Massachusetts]*
- Verbena scrobiculata Griseb. [Brazil]
- Verbena simplex Lehm. [Massachusetts]
- Verbena stricta Vent. [Belgium]
- Verbena sulphurea D. Don [Belgium]
- Verbena tenera Spreng. [Belgian Congo]
- Verbena tenuisecta Briq. [Belgian Congo & Java]
- Verbena tenuisecta var. alba Moldenke [Java]
- Verbena urticifolia L. [Belgium, Massachusetts, & New York]
- Verbena urticifolia x lasiostachys Dermen [Massachusetts]*
- Verbena urticifolia x neomexicana Dermen [Massachusetts]*
- Verbena xutha Lehm. [New York]
- Vitex agnus-castus L. [Cuba & Southern Rhodesia]
- Vitex hollrungii Warb. -- to be deleted
- Vitex negundo L. [California & Réunion]
- Vitex negundo var. intermedia (P'ei) Moldenke [Java]
- Vitex pinnata L. [Madagascar & Réunion]
- Vitex trifolia L. [Belgium, Johnston Island, & Réunion]
- Vitex trifolia var. heterophylla (Mak.) Moldenke [Belgium]

ADDITIONAL NOTES ON THE ERIOCAULACEAE. VI

Harold N. Moldenke

ERIOCAULON CINEREUM R. Br.

The species ascends to 5200 feet in Kashmir.

Additional citations: INDIA: Kashmir: Koelz 9040 (N).

ERIOCAULON DECANGULARE L.

The common name "Late Eriocaulon" is given for this species in "The Carolinian Florist of Governor John Drayton of South Carolina", p. 14 (1943), where it is called Eriocaulon serotinum Walt.

ERIOCAULON SIGMOIDEUM C. Wright

The specimens cited below were mis-identified as E. fuliginosum C. Wright by the collector. It has been collected in anthesis in September.

Additional citations: CUBA: Pinar del Rio: C. F. Baker 2098 (Es, Po--185877).

ERIOCAULON TEXENSE Körn.

Additional citations: TEXAS: Houston Co.: Warner s.n. [Grape-